

# D. L. SERVenty'S GOOSEBERRY HILL PLANT LIST

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## INTRODUCTION

The late D. L. Serventy worked at the CSIRO laboratory in Helena Valley, and owned Lot 306, The Knoll, Gooseberry Hill, which he used as a weekend cottage. At his behest, G. M. Storr of the WA Museum collected 74 plants on The Knoll on 5th October 1957. Dr Serventy continued sporadic collections at the locality until 1967, reaching a total of 92 taxa. The specimens collected by Storr were identified by C. A. Gardner, Serventy's by R.D. Royce or A.S. George, all of the WA Herbarium.

I became aware of the existence of the collection when Dr Serventy permitted me to use the house as a base for school biology/geography excursions during the 1970s. After his death, the Serventy family kindly gave me the collection to assist with my study of the flora of Gooseberry Hill. It is described here as a distinct historical collection, and the specimens have been lodged in the WA Herbarium [PERTH].

A list of the plants represented in the collection is given in Table 1. The arrangement and nomenclature follows Marchant *et al.* (1987) but where taxonomic changes have occurred, the name originally applied is given in brackets.

## DISCUSSION

Gooseberry Hill is a promontary of lateritic caprock which forms the southern edge of the Helena Valley where it cuts through the Darling Scarp. The site, geology, soil and vegetation has been described in Hussey (1993). Basically, it is a narrow plateau of massive laterite, breaking sharply away on the north, west and south sides to form steep scree slopes. The vegetation is open forest of Jarrah, *Eucalyptus marginata*, and Marri, *Eucalyptus calophylla*, with a heath understorey.

D. L. Serventy's block occupied part of the caprock and scree slope, facing north over the Helena Valley and the CSIRO laboratories where he worked. At the time when the collection was made very few blocks were developed, now almost all are. With the exception of two species, *Hovea pungens* and *Conostylis androstemma*, the specimens come from the laterite area, possibly even from Lot 306 itself.

Currently, the species list for the lateritic section of the public land on The Knoll stands at 188 species. Since this collection contains only 90 plants, it is clearly not exhaustive – there are only three members of the Proteaceae, for example, and no Myrtaceae at all. It cannot therefore

be used to infer the species composition, relative abundance or percentage of exotics in the community at that time. Nevertheless, it includes some interesting taxa.

The following four species have not been noted recently:

*Guichenotia micrantha* is not recorded by Marchant *et al.* (1987) as occurring within the Perth area, although it is widespread across the Wheatbelt. The nearest locality is Sawyers Valley. It could have been destroyed by development, but it may still exist on a private block.

*Styphelia tenuifolia* is common on laterite elsewhere, and it may still occur on private land.

*Senecio gilbertii* is endemic to the Darling Range and not common, the nearest population is at Glen Forrest. Despite specific searches, it has not been found recently, but a fire in December 1993 may have stimulated germination.

*Elymus scabrus* is uncommon in the Perth region, though it has been noted from Swan View. The niche it would have occupied on The

Knoll is now filled by introduced grasses such as *Ehrharta calycina*, and so this population may have succumbed to competition.

There are currently 23 introduced species on The Knoll, and the 14 species in this collection all still occur there.

## ACKNOWLEDGEMENTS

Thanks to the late Dom Serventy, who first introduced me to Gooseberry Hill, and to the Serventy family for giving me the collection.

## REFERENCES

- HUSSEY B.M.J., 1993. Naturalised plants on the southern slopes of the western end of the Helena Valley, Western Australia. *West. Aust. Nat.* 19: 209–223.
- MARCHANT, N.G., WHEELER, J.R., RYE, B.L., BENNETT, E.M., LANDER, N.S. and MACFARLANE, T.D. 1987. *Flora of the Perth Region*. Western Australian Herbarium, Perth, WA.

**Table 1.** List of specimens in D.L. Serventy's Gooseberry Hill herbarium.  
(GMS = G. M. Storr, DLS = D. L. Serventy, \* = introduced species)

Family	Name	Collector	Date
Adiantaceae	<i>Cheilanthes austrotenuifolia</i> ( <i>Cheilanthes tenuifolia</i> )	GMS	5/10/57
Lauraceae	<i>Cassytha racemosa</i>	GMS	5/10/57
Ranunculaceae	<i>Clematis pubescens</i>	GMS	5/10/57
Amaranthaceae	<i>Ptilotus drummondii</i> ( <i>Trichinium drummondii</i> )	GMS	5/10/57
Caryophyllaceae	<i>Petrorhagia velutina</i> *		
	( <i>Tunica prolifera</i> )	GMS	5/10/57
	<i>Silene gallica</i> *	GMS	5/10/57
Dilleniaceae	<i>Hibbertia commutata</i> ( <i>Hibbertia montana</i> )	GMS	5/10/57
	<i>Hibbertia hypericoides</i>	GMS	5/10/57
	<i>Hibbertia serrata</i> ( <i>Hibbertia montana</i> var. <i>major</i> )	GMS	5/10/57
Sterculiaceae	<i>Guichenotia micrantha</i>	GMS	5/10/57
Droseraceae	<i>Drosera macrantha</i>	GMS	5/10/57
	<i>Drosera</i> ? <i>pallida</i> (vegetative material)	DLS	29/5/58
Epacridaceae	<i>Styphelia tenuiflora</i>	DLS	15/5/60
Primulaceae	<i>Anagallis arvensis</i> *		
	var. <i>caerulea</i> ( <i>Anagallis arvensis</i> ssp. <i>foemina</i> )	GMS	5/10/57
Pittosporaceae	<i>Billardiera drummondiana</i> ( <i>Marianthus drummondiana</i> )	GMS	5/10/57
	<i>Pronaya fraseri</i> ( <i>Pronaya elegans</i> )	DLS	23/2/63
Mimosaceae	<i>Acacia pulchella</i>	GMS	5/10/57
Fabaceae	<i>Bossiaea ornata</i>	GMS	5/10/57
	<i>Davesia cordata</i>	GMS	5/10/57
		DLS	1/9/62
	<i>Gompholobium marginatum</i>	GMS	5/10/57
	<i>Gompholobium preissii</i>	GMS	5/10/57
	<i>Hovea chorizemifolia</i>	DLS	13/6/65
	<i>Hovea pungens</i>	DLS	19/7/64
	<i>Hovea trisperma</i>	GMS	5/10/57
	<i>Kennedia coccinea</i> ( <i>Kennedia coccinea</i> )	GMS	5/10/57
	<i>Kennedia stirlingii</i> ( <i>Kennedia stirlingii</i> )	DLS	30/9/67
	<i>Trifolium campestre</i> *	GMS	5/10/57
Proteaceae	<i>Dryandra nivea</i>	GMS	5/10/57
	<i>Grevillea synapheae</i>	GMS	5/10/57
	<i>Petrophile striata</i>	GMS	5/10/57

Table 1 (cont.)

Family	Name	Collector	Date
Thymeliaceae	<i>Pimelea argentea</i>	GMS	5/10/57
	<i>Pimelea ciliata</i>		
	( <i>Pimelea rosea</i> )	GMS	5/10/57
Stackhousiaceae	<i>Stackhousia pubescens</i>	GMS	5/10/57
	<i>Triptrococcus brunonis</i>		
	( <i>Stackhousia brunonis</i> )	GMS	5/10/57
Euphorbiaceae	<i>Phyllanthus calycinus</i>	GMS	5/10/57
Polygalaceae	<i>Comesperma ciliatum</i>		
	( <i>Comesperma volubile</i> )	GMS	5/10/57
Rutaceae	<i>Boronia ovata</i>	GMS	5/10/57
	<i>Eriostemon spicatus</i>	GMS	5/10/57
Oxalidaceae	<i>Oxalis corniculata</i> *	DLS	10/8/58
Apiaceae	<i>Daucus glochidiatus</i>		
	( <i>Erodium cicutarium</i> )	GMS	5/10/57
Gentianaceae	<i>Centaurium erythraea</i> *		
	( <i>Erythraea centaurium</i> )	DLS	23/11/58
Orobanchaceae	<i>Orobanche minor</i> *		
	( <i>Orobanche cernua</i> )	GMS	5/10/57
Lobeliaceae	<i>Isotoma hypocrateriformis</i>	DLS	23/11/58
Stylidiaceae	<i>Stylidium affine</i>	GMS	5/10/57
	<i>Stylidium amoenum</i>		
	( <i>Stylidium striatum</i> )	GMS	5/10/57
	<i>Stylidium calcaratum</i>	GMS	5/10/57
	<i>Stylidium piliferum</i>	GMS	5/10/57
Goodeniaceae	<i>Dampiera alata</i>	GMS	5/10/57
	<i>Dampiera linearis</i>		
	( <i>Dampiera triloba</i> )	GMS	5/10/57
	<i>Lechenaultia biloba</i>	GMS	5/10/57
	<i>Scaevola calliptera</i>		
	( <i>Scaevola pilosa</i> )	GMS	5/10/57
	<i>Scaevola platyphylla</i>	GMS	5/10/57
	<i>Scaevola striata</i>	GMS	5/10/57
Asteraceae	<i>Helichrysum macranthum</i>		
	( <i>Helichrysum bracteatum</i>		
	var. <i>albidum</i> )	GMS	5/10/57
	<i>Hypochaeris glabra</i> *	GMS	5/10/57
	<i>Millotia tenuifolia</i>	GMS	5/10/57
	<i>Olearia paucidentata</i>	DLS	15/5/60
			19/5/62
	<i>Podolepis gracilis</i>	GMS	5/10/57
	<i>Podolepis lessonii</i>		
	( <i>Podolepis nutans</i> )	GMS	5/10/57
	<i>Rhodanthe corymbosa</i>		
	( <i>Helipterum corymbosum</i> )	GMS	5/10/57



Table 1 (cont.)

Family	Name	Collector	Date
	<i>Senecio gilbertii</i>	GMS	5/10/57
	<i>Senecio lautus</i>	GMS	5/10/57
	<i>Sonchus oleraceus</i> *		
	( <i>Sonchus olivaceus</i> )	GMS	5/10/57
	<i>Trichocline spathulata</i>		
	( <i>Trichocline scapigera</i> )	DLS	23/11/58
	<i>Ursina anthemoides</i> *	GMS	5/10/57
Dioscoreaceae	<i>Dioscorea hastifolia</i>	DLS	29/5/58
Anthericaceae	<i>Agrostocrinum scabrum</i>	GMS	5/10/57
	<i>Arthropodium capillipes</i>	DLS	28/12/58
	<i>Caesia parviflora</i>	GMS	5/10/57
	<i>Sowerbaea laxiflora</i>	GMS	5/10/57
	<i>Thysanotus manglesianus</i>		
	( <i>Thysanotus patersonii</i> )	GMS	5/10/57
	<i>Thysanotus multiflorus</i>	GMS	5/10/57
Colchicaceae	<i>Burchardia multiflora</i>	DLS	25/8/62
	<i>Burchardia umbellata</i>	GMS	5/10/57
	<i>Wurmbea pygmaea</i>		
	( <i>Anguillaria dioica</i> )	DLS	29/5/58
Iridaceae	<i>Orthrosanthus laxus</i>	GMS	5/10/57
Orchidaceae	<i>Caladenia longicauda</i>		
	( <i>Caladenia patersonii</i> )	GMS	5/10/57
	<i>Diuris corymbosa</i>		
	( <i>Diuris longifolia</i> )	GMS	5/10/57
	<i>Eriochilus dilatatus</i>	DLS	29/5/58
	<i>Prasophyllum elatum</i>	GMS	5/10/57
Haemodoraceae	<i>Conostylis androstemma</i>	DLS	19/7/64
	<i>Conostylis setosa</i>		
	( <i>Conostylis discolor</i> )	GMS	5/10/57
Cyperaceae	<i>Lepidosperma angustatum</i>	GMS	5/10/57
	<i>Lepidosperma scabrum</i>	GMS	5/10/57
Poaceae	<i>Avena barbata</i> *	GMS	5/10/57
	<i>Briza maxima</i> *	GMS	5/10/57
	<i>Briza minor</i> *	GMS	5/10/57
	<i>Danthonia caespitosa</i>		
	( <i>Danthonia semiannularis</i> )	GMS	5/10/57
	<i>Elymus scabrus</i>		
	( <i>Agropyron scabrum</i> )	GMS	5/10/57
	<i>Neurachne alopecuroidea</i>	GMS	5/10/57
	<i>Poa drummondiana</i>		
	( <i>Poa bulbosa</i> )		
	<i>Vulpia myuros</i> *	GMS	5/10/57